

Euro Series

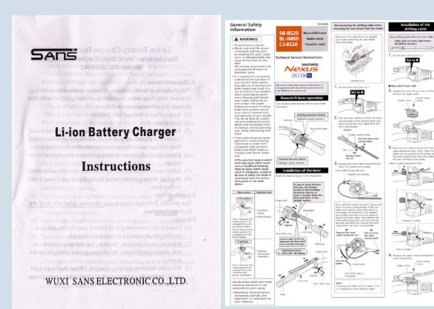
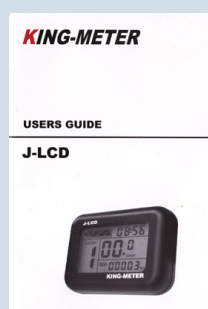
USER MANUAL

SPECIFICATIONS

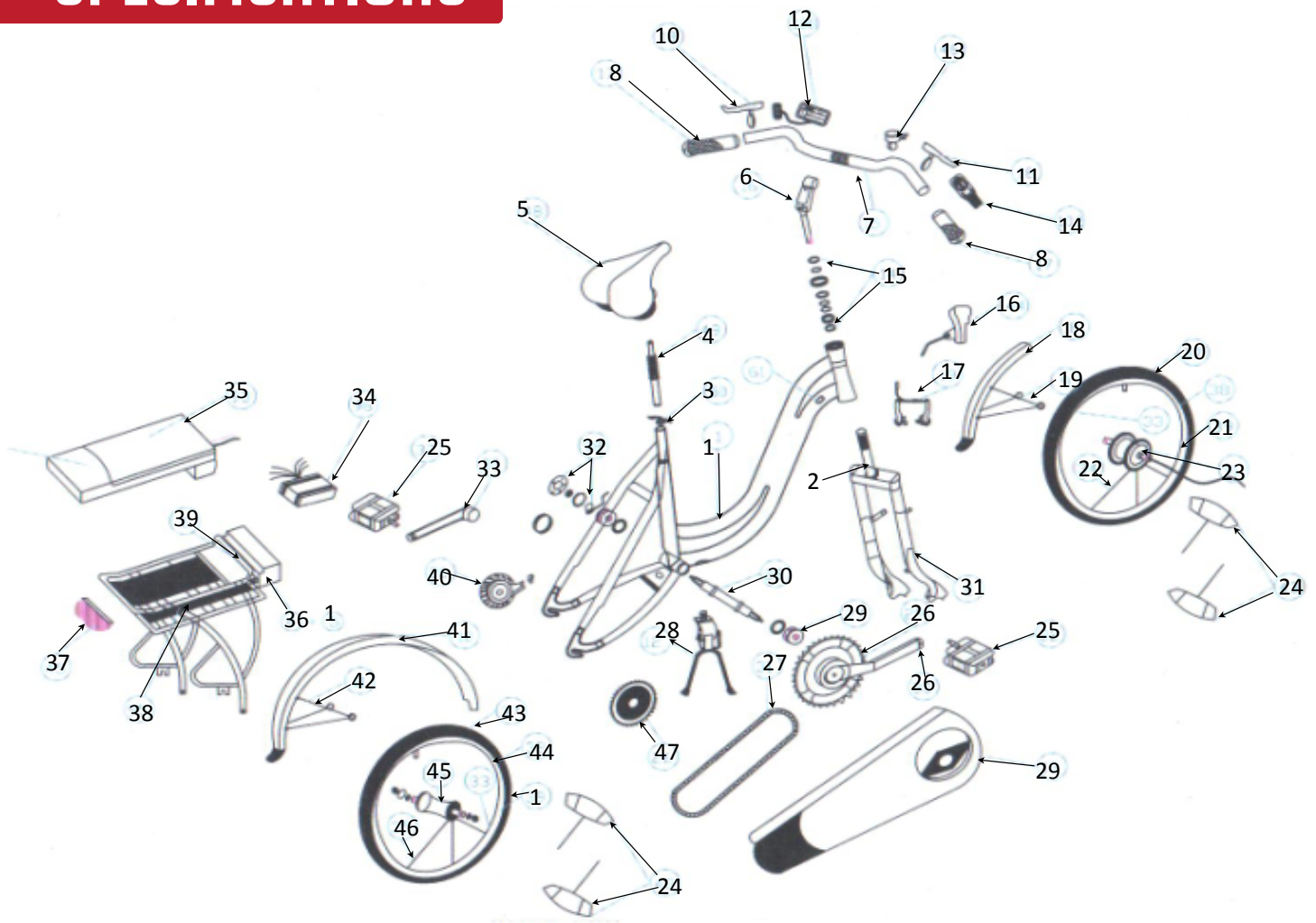
FEATURE	MAESTRO	LEGATO	SONATA
Style	Commuter Step Over Frame	Commuter Step Through Frame	Folding e-Bike
Standard	EN15194 E-Bike, A/S 1927 Bicycle	EN15194 E-Bike, A/S 1927 Bicycle	EN15194 E-Bike, A/S 1927 Bicycle
Motor	Brushless geared 250 watt	Brushless geared 250 watt	Brushless geared 250 watt
Battery	Panasonic Cell 36v 11.6Ah Lithium battery Super light: 2.4 kg	Panasonic Cell 36v 11.6Ah Lithium battery Super light: 2.4 kg	Panasonic Cell MY2014 36v 9Ah MY2013 24V 9Ah Lithium battery Super light: 1.8 kg
Range	Up to 80 km pedal assist	Up to 80 km pedal assist	Up to 50 km pedal assist
Dashboard	5 stage power levels, Speed, distance, time, odometer, diagnostics, battery capacity	5 stage power levels, Speed, distance, time, odometer, diagnostics, battery capacity	3 stage power levels, battery capacity
Gears	Shimano Nexus 8 Speed or Nexus 3	Shimano Nexus 8 Speed or Nexus 3	Shimano Nexus 3 Speed
Forks	Zoom 140 Adjustable suspension	Zoom 140 Adjustable suspension	
Wheels & Tyres	700c Alex Rims Stainless steel spokes, Kenda 700c x 38c with reflective band	Medium Frame: 700c Alex Rims Stainless steel spokes, Kenda 700c x 38c with reflective band. Small Frame: 26" Alex Rims Stainless steel spokes, Kenda 26 x 1.5 with reflective band.	20" Rims Stainless steel spokes,
Brakes	V Type Front, Rear Shimano Roller Brake	V Type Front and Rear Shimano Roller Brake	V Type Front and Rear
Saddle	Super plush Velo comfort saddle, KS Suspension seat post	Super plush Velo comfort saddle, KS Suspension seat post	Super plush Velo comfort saddle,
Storage	Rear Pannier Carry rack, cargo straps	Rear Pannier Carry rack, cargo straps	Rear Pannier Carry rack,
Lighting	Hi Output LED front and rear	Hi Output LED front and rear	Hi Output LED front and rear
Security	Keylock battery, rear wheel clamp lock and flexible cable lock included	Keylock battery, rear wheel clamp lock and flexible cable lock included	
Comfort	Plush comfort leather look hand grips, Tranz X Tool-less free adjustable head-stem	Plush comfort leather look hand grips, Tranz X Tool-less free adjustable head-stem	Comfort hand grips, Tool-less adjustable head-stem
Weight	25kg		20kg
Contact	Electric Vehicles P/L Factory 12, 17-23 Keppel Drive Hallam, Vic 3083 Ph: (03) 9796 5525 evs.info@evehicles.com.au		

Note this manual is to be read together with the following component manuals supplied with you bicycle

- BIA Bicycle Manual
- Shimano Nexus 8 Gear set manual
- King Meter Power Assist System Manual
- Tranz X Tool-less head-stem manual
- Sans charger Manual



SPECIFICATIONS



Item No.	PP- Part Number	Description	Item No.	PP- Part Number	Description	Item No.	PP- Part Number	Description
1	3111	Frame	18	3921	Mudguard Front	35	3313	Battery
2	3144	Fork	19	3923	Mudguard Stay Front	36	3911	Control Box Case
3	3910	Seat-post Collar	20	3931	Tyre Front	37	3934	Light rear
4	3914	Seat Post Suspension	21	3509	Rim Front	38	3331	Battery Slide
5	3918	Saddle	22	3523	Spoke Front	39	3112	Rear Rack
6	3913	Head-stem	23	3211	Motor	40	3713	Brake Rear
7	3912	Handlebar	24	3946	Reflectors	41	3922	Mudguard Rear
8	3941L	LHS grip	25	3822	Pedal Set	42	3924	Mudguard Stay Rear
9	3941R	RHS Grip	26	3821	Crank Right	43	3532	Tyre Rear
10	3715	LHS Brake Lever	27	3814	Chain	44	3508	Rim Rear
11	3716	RHS Brake Lever	28	3834	Chain Guard Set	45	3818	Gear Hub
12	3943	Power Meter/Speedo	29	3916	Stand	46	3524	Spoke Rear
13	3931	Bell	30	3825	Bottom Bracket	47	3819	Sprocket Rear
14	3817	Gear shifter	31	3948	Cable Clips	49	3411	Charger
15	3915	Head-set	32	3612	PAS Sensor set			
16	3933	Light front	33	3820	Crank Left			
17	3719	Brake set Front	34	3611	Controller			

BATTERY CHARGING

The battery used in the Power-Ped e-Bike is a sophisticated Lithium 36 Volt 11.6Ah hi capacity battery that requires charging after each and every use.

Charging will take between 6-8 hours from a fully discharged state Battery Charging Procedure— Important

1. Ensure you have the correct Approved Battery Charger charger.
2. SANS 2 Amp Charger Model SSLCO84V42 or HP Model 8204 3 amp Lithium Charger.
2. Ensure switch at the power point is OFF.
3. Plug in the charge connector from the battery charger into the charge power socket located on the rear of the battery. See Below
4. Turn ON the battery charger on at the wall switch.
5. The charger LED Light will be Red when Charging, Green when fully charged
6. Once charged (Green) the charging lead can be disconnected from the bicycle. Note: The charging lead can be left connected without harming the battery. This stage is referred to as TRICKLE charging.
7. It is recommended to turn off the switch at wall when charger is not in use to ensure you are not wasting electricity and to be ready for the next charge cycle.
8. Remember to charge after every use regardless of how long the bicycle was used for. This will assist a longer overall battery life.
9. Note if the vehicle is not being used for an extended period we recommend charging every 2 weeks.
10. The battery can be charged on or off the bicycle.



Warnings

- Mount charger on a wall close to the bicycle. Have power points installed by a licensed Electrician.
- Do not expose the battery or battery charger to moisture.
- Do not leave charger on the ground where it can be damaged or misused.
- Do not expose to excessive heat such as direct sunlight.
- Do not cover charger. The battery charger needs to be well ventilated.
- Do not drop the charger as it has highly sophisticated circuitry and will be damaged if dropped.
- Do not move the bicycle with charger plug connected. This will damage the charger port and the charger socket.



LED light is Red when charging



LED light is Green when charge is complete

TORQUE SETTINGS

All nuts and bolts should be checked on a regular basis for tightness. To assist in achieving the correct tension when tightening nuts and bolts, the use of a torque wrench is recommended. Apply the following torque for the nominated parts of your bicycle:

Rear Wheel Nuts: 50-60 Newton Meters

Seat Pillar Clamp Nut: 15-19 Newton Meters

Brake Anchor Nut: 7-11 Newton Meters

Handle Bar Clamp Nut: 17-19 Newton Meters

Head Stem Expander Bolt: 17-19 Newton Meters

Crank Cotter Pin Nuts: 9-14 Newton Meters

Brake Centre Bolt: 2-17 Newton Meters

BATTERY REMOVAL AND CHARGE METER

Step	Procedure	Pic Ref	Tools
1	Turn battery key lock clockwise.	1	
2	Grip the rear of the battery firmly and pull. Remove battery. Be careful not to drop or damage the battery.	2	
3	To install the battery, locate the battery into the rear rack slide, gently push the battery so it locks into place		
4	Turn key-lock clockwise to lock in place. Note be careful to double check battery is locked in place. Also remember to remove keys before riding		
5	To test the charge status of the battery, press the battery test button on the rear of battery. The meters LED's will momentarily display the charge state of the battery.	3	



Pic 1



Pic 2



Pic 3

FRONT WHEEL REMOVAL AND INSTALLATION

Step	Procedure	Pic Ref	Tools
1	Support bicycle on a suitable rack or turn bike upside down and place on a flat even surface. Use a mat to prevent scratching/damage		
2	Release the front v-brake as shown by squeezing in the brake arms to relive tension on the cable. Remove the “noodle” guide from the brake arm	1,2	
3	Use a phillips head screw driver to remove the small cable guide on the fork	3	Phillips head screwdriver
4	Undo the motor cable connector by turning the cap as shown and pull the cable connector apart	4,5	
5	Use a 17mm socket or 17mm ring spanner to remove the axle nuts as shown	6	17mm Spanner
6	Remove wheel.		
7	To install wheel reverse above procedure and tighten 17mm nuts to 35Nm		

Pic 1



Pic 2



Pic 3



Pic 4



Pic 5



Pic 6



REAR WHEEL REMOVAL AND INSTALLATION

Step	Procedure	Pic Ref	Tools
1	Support bicycle on a suitable rack or turn bike upside down and place on a flat even surface. Use a mat to prevent scratching/ damage		
2	Loosen 10mm cable binder on rear roller brake as shown	1	10mm spanner
3	Pull cable through cable retainer, remover cable binder from roller brake	2	
4	Remove rear axle cover panel by pushing tab clip as shown	3,4	
5	Remover chain guard parts by pushing in tab clip as shown	5	
6	Loosen and remove 15mm axle dome nuts as shown	6	15mm spanner
7	Remove the cable from the actuator as shown in the Shimano Nexus 8 document below		
8	Remove wheel from bike		

Pic 1



Pic 2



Pic 3



Pic 4



Pic 5



Pic 6



Pic 7



Pic 8

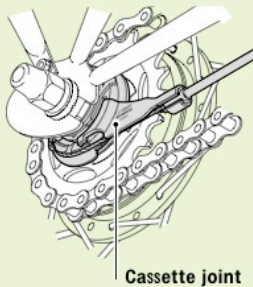




Installation/adjustment of the NEXUS 8-speed hub

Disconnecting the shifting cable when removing the rear wheel from the frame

Disconnect the cable from the cassette joint when removing the rear wheel from the frame.



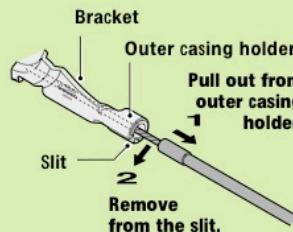
Cassette joint

1. Set the Revo-shift lever to 1.



Set to 1

2. Pull the outer casing out from the outer casing holder of the cassette joint, and then remove the inner cable from the slit in the bracket.



Bracket

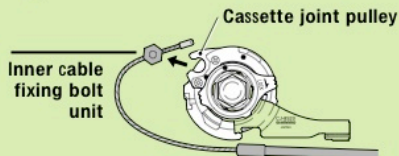
Outer casing holder

Pull out from
outer casing
holder.

Slit

Remove
from the slit.

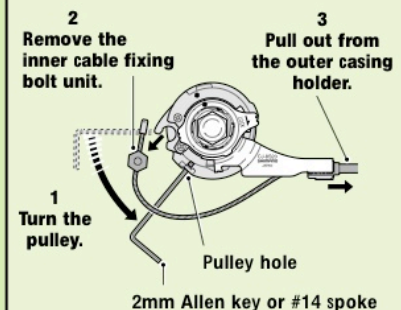
3. Remove the inner cable fixing bolt unit from the cassette joint pulley.



Cassette joint pulley

Inner cable
fixing bolt
unit

If it is difficult to pull the outer casing out from the outer casing holder of the cassette joint, insert a 2mm Allen key or a #14 spoke into the hole in the cassette joint pulley, and then turn the pulley to loosen the inner cable. Then remove the inner cable fixing bolt unit from the pulley first, and after this remove the outer casing from the outer casing holder.



2 Remove the
inner cable fixing
bolt unit.

3 Pull out from
the outer casing
holder.

1 Turn the
pulley.

Pulley hole

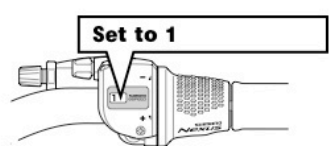
2mm Allen key or #14 spoke

Note
■ If reusing the cable, refer
to steps 7 to 9 in "Installation
of the shifting cable".

Installation of the shifting cable

Use a shifting cable with one inner cable drum.
Cable with one inner cable drum / SIS-SP40 (4 mm dia.)

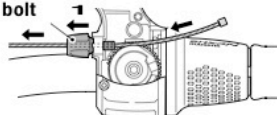
1. Set the Revo-shift lever to 1.



Set to 1

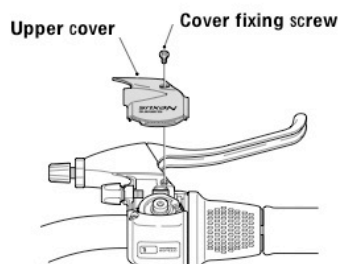
3. Pass the inner cable through the hole in the cable adjustment bolt. Next, hook the inner cable into the groove of the pulley, and pull the inner cable so that the inner cable drum fits into the hole in the pulley.

Hole in cable
adjustment bolt



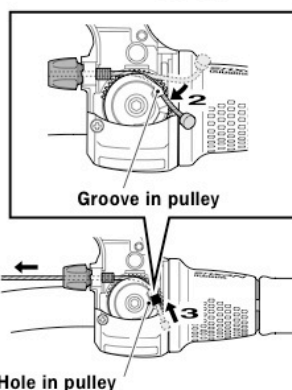
Revo-shift lever side

2. Loosen the cover fixing screw, and then remove the upper cover.



Upper cover

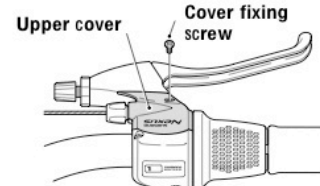
Cover fixing screw



Groove in pulley

Hole in pulley

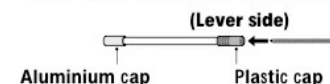
4. Replace the upper cover and tighten the cover fixing screw.



Upper cover

Cover fixing
screw

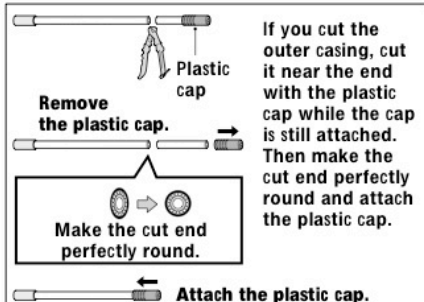
5. Pass the inner cable through the SIS-SP40 outer casing, starting at the end with the plastic cap.



(Lever side)

Aluminium cap

Plastic cap



Remove
the plastic cap.

Plastic
cap

Make the cut end
perfectly round.

Attach the plastic cap.

If you cut the
outer casing, cut
it near the end
with the plastic
cap while the cap
is still attached.
Then make the
cut end perfectly
round and attach
the plastic cap.

ADJUSTING GEARS

Step	Procedure	Pic Ref	Tools
1	Remove plastic cover on axle by pushing in ribbed tab then pulling off the cover.	1	
2	Remove top and bottom chain cover	2,3	
3	Set gear selector to gear 4	4	
4	Identify the yellow markers on the top or bottom of the gear hub where the cable joins	5	
5	Use the cable adjuster on the shifter to move the marker until they meet together.	6	
6	Refit covers		

Pic 1



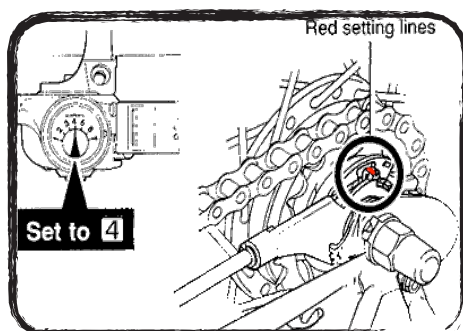
Pic 2



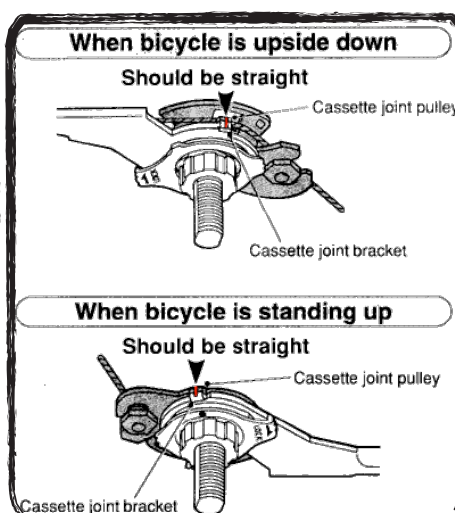
Pic 3



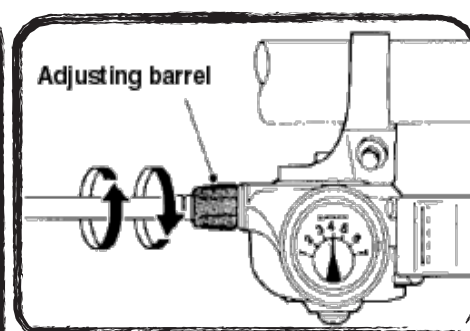
Pic 4



Pic 5



Pic 6



FRONT LIGHT BATTERY REPLACEMENT

Step	Procedure	Pic Ref	Tools
1	Tilt light housing forward as shown	1	
2	Grip rear of house as shown and lift up or use a coin in slot on side of the case	2	
3	Replace batteries with 3x AA batteries		
4	To turn on light push button		

Pic 1



Pic 2



Pic 3



REAR LIGHT BATTERY REPLACEMENT

Step	Procedure	Pic Ref	Tools
1	Use small Phillips head screw driver and remove screw		
2	Replace old batteries with 2x AA batteries		

REAR WHEEL LOCK

Step	Procedure	Pic Ref	Tools
1	Turn key clockwise	1	
2	Push down on spring-loaded lever and click into place	2	
3	To unlock, insert key and turn clockwise		



SONATA FOLDING PROCEDURE

Step	Procedure	Pic Ref	Tools
1	Lower seat to its shortest position. The seat tube protects the chainring when folded	1	
2	Fold in the pedals	2	
3	Release the locking slide for the headstem folding mechanism	3	
4	Open the headstem folding lever	4	
5	Gently tilt down handle bar	5	17mm Spanner
6	Release the locking slide for the centre fram folding mechanism	6	
7	Open the frame folding mechanism with the lever	7	
8	Gently fold frame around to folded position	8	
9	To assemble reverse procedure ensuring both headstem and frame folding locking slide are firmly in place.		

Pic 1



Pic 2



Pic 3



Pic 4



Pic 5



Pic 6



Pic 7



Pic 8



PEDAL INSTRUCTIONS

Step	Procedure	Pic Ref	Tools
1	Get a pedal wrench. Most bikes these days require a 15--millimetre pedal wrench. Pedal wrenches work best because they are narrow and can easily fit between the pedal and the crank arm.		
2	Understand that the right pedal is right--hand thread, but the led pedal is LEFT--HAND (reverse) thread -- thus, when you go to loosen the led pedal, pretend that you are =ghtening it.	1	
3	Apply enough pressure to loosen the pedal. Once loose, you can remove the pedal easily be turning the crank forward while keeping the wrench on the pedal (though this may be difficult if you don't have a bike stand to allow the rear wheel to turn freely).		
4	Screw in the new pedals with your fingers to make sure you don't cross-thread the pedal and strip the threads on the aluminium crank arm. Tighten the pedals securely using the pedal wrench.	2	

Pic 1



Pic 2



E-BIKE RIDING TIPS



IMPORTANT: This product is classified as an Electric Power Assisted Bicycle. The bicycle meets the EN15194 European standard for e--Bikes. This standard is the new standard for e--Bikes in Australia. The standard requires the motor to cease assistance over 25km/h. The bicycle is designed to be used as a power assisted bicycle. Use of the bike in the correct way will provide an excellent riding experience. This means pedalling is required to ensure maximum economy and performance figures are achieved. Use an appropriate gear to the conditions and when starting off use a lower gear. Use the pedals to assist the bike and ensure maximum range is achieved. Specified distances and speed will only be achieved by pedal assisting the motor and power level selected.

Set the seat height so heel of foot touches the pedal with the leg straight. Consult your Dealer or Electric Vehicles Pty Ltd for advice on seat position.

Charging at both ends of a regular trip is a good idea, e.g. take charger with you or have a second charger at the other end of your trip.

The more you pedal the further you can travel per charge and better the bike performs.

These bicycles are designed for smooth surface riding only. Riding over gutters, footpath road crossings or rough terrain may result in damage or injury to the rider.

No jumping stunt work or additional weight loading than specified. (100kg for 26" and 700c wheeled bikes and 90kg folding bikes including Rider)

Water damage is not covered under warranty.

GENERAL USE INSTRUCTIONS AND WARNINGS

1. Battery

- Never short circuit the discharge or charge terminals of the battery
- Never charge the battery by discharge terminals or discharge the battery by charge terminals.
- Keep the battery away from excessive heat and open flames. Never put the battery into water.
- To avoid damage to the battery, never subject it to intense physical shock or severe vibration or impact.
- Do not leave the battery in hot sun for an extended period
- Protect the battery from water or other moisture. Protect the discharge and charge terminals of the battery from rain or water logging
- Charge temperature range 0~45 °C.
- Discharge temperature range -20~55 °C.
- Keep the battery away from children.
- When the battery is not in use for an extended period of time, remove the battery from the bike for storage.
- If you have any questions about this battery or its usage, please do not hesitate to e-mail us at evs.enquiries@evehicles.com.au
- Never disassemble the battery.

2. Charger

- Never put any material on the charger.
- Never put any liquid or metal into the charger.
- Never disassemble or refit the charger.
- Never plug or pull plugs of the charger with a wet hand.
- Do not touch the charger when thunder or lightning are present. Use only the approved charger supplied by our Company. Never use any other charger to charge the battery.
- Avoid using the charger in direct sunlight.
- Keep charger well ventilated when the charger is operating

Daily Checks before riding your electric bike

- Check brakes for alignment of front pads and wear. Check mechanism on handle bar
- Check brake cable tension.
- Check tyre pressure
- Check chain tension
- Check tightness of front handlebar stem.
- Check tightness of wheel nuts
- Check all joins in handle bar and frame
- Check battery status via charge light on charger and on bike Check pedal tightness on crank

Warranty Card

Model Purchased: _____ Product Serial/Frame #: _____

Date of Purchase: _____ Dealer Name: _____

Customer Name: _____

Address: _____ City: _____ State: _____ PostCode: _____

e-Mail: _____ Phone: _____

Optional Questionnaire. Please assist us in answering some simple questions below. This information assists us in developing quality, innovative new products. We thank you for your co-operation. Please tick one or more options

1. Age profile: 15-25, 26-35, 36-45, 46-55, 56-65, 66-70, 71+
2. Is this your first electric bicycle purchase? Y__N__
3. How do you intend using the Power-Ped e-Bike? Commuting to work__Recreational Riding__
Shopping__Exercise__Alternative to a car__Alternative to Public Transport__Mobility__Injury
recovery__Other_____
4. If commuting, how long is the return trip? _____km's
5. How often do you see anticipate using your Power-Ped? Daily__Weekly__Occasionally__
6. How did you find out about Power Ped Products? Web Search__Referral__E-bike sighted in Street__Newspaper or
Magazine Advertising.
Dealer Display__Advertising__Other_____
7. Did you test ride a Power-Ped e-Bike before buying? Y__N__
8. Did you consider or try other brands of e-Bikes? If so what Brands_____
9. What are the key features you like about your New Power Ped E-Bike? Lightweight Battery__Power__Range per
charge__Styling__Ease of mounting bicycle__Comfort__Price__Quality__Service
Support__Other_____
10. Would you recommend a Power Ped to your friends? Y__N__
11. Would you Like to receive our monthly Power-Ped newsletter via e-Mail? Y__N__
12. Would you like to visit our Facebook page? Y__N__
13. Would you be interested in joining our referral programme where you could receive loyalty rewards? Y__N__

Please fill out the Warranty Card details and post or e--Mail a copy to Electric Vehicles P/L
Factory 12, 17--23 Keppel Drive, Hallam, Vic 3803 Ph: 03 9796 5525
e--Mail: evs.enquiries@evehicles.com.au

LIMITED WARRANTY

This warranty is provided by Electric Vehicles P/L, (distributor of Power-Ped e-Bikes), Factory 12 17-23 Keppel Drive, Hallam, Vic 3803. You can reach us at evs.enquiries@evehicles.com.au or on (03 9796 5525).

This warranty applies to all Power-Ped e-Bikes and conversion kits sold by Power-Ped authorized retailers in Australia on or after 1 August 2012.

OUR WARRANTY TO YOU

All Power-Ped e-Bikes and conversion kits are sold exclusively through our network of authorized retailers who we entrust with professional assembly and service of your e-Bike or conversion kit. Electric Vehicles P/L provides each original retail purchaser of a Power-Ped e-Bike/conversion kit a warranty against defects in materials and workmanship, starting on the date of purchase and continuing for the period stated below:

5 years

- Frame

2 years

- motor, controller,,
- All original forks, parts and components (except consumables such as tires and tubes) included or installed on your Power-Ped e-Bike at the time of purchase

1 year

- Paint and decals, charger, battery pack(or 600 charges, whichever comes first), wheelsets Any products not specifically included above are not covered by this warranty.

EXCLUSIONS AND LIMITATIONS

This warranty does not cover:

- Normal wear and tear
- Improper assembly
- Improper follow-up maintenance
- Installation of components, parts, or accessories not originally intended for or compatible with the bicycle as sold
- Damage or failure due to accident, misuse, abuse, or neglect
- Labor charges for part replacement or changeover, except as required by law

This warranty is void in its entirety by any modification of the frame, fork, or components. Repair or replacement (at Electric Vehicles P/ L's option) is the sole remedy provided under this warranty where a valid warranty claim is made. Electric Vehicles P/L will endeavor to replace your frame, fork or component with the same or functionally equivalent part, subject to availability and in Electric Vehicles P/L sole discretion. This warranty is offered only to the original owner, and is not transferable. This warranty applies only to Power-Ped e- Bikes or conversion kits purchased through an authorized retailer. This warranty does not cover third party bicycles, parts or components, which are covered by the stated warranty of the original manufacturer, if any.

HOW TO MAKE A CLAIM UNDER THIS WARRANTY

Any claim against this warranty must be made through an authorized retailer. Your closest authorized retailer may be found on www.powerped.com.au or by contacting Electric Vehicles P/L directly using the information provided above. Proof of purchase is required. A bicycle must be registered with Electric Vehicles P/L via submission of the Warranty Card provided with you e-Bike or conversion kit before a warranty claim may be processed. All costs and expenses associated with claiming under this warranty will be borne by the consumer. Claims made outside the country of purchase may be subject to fees and additional restrictions.

YOUR CONSUMER RIGHTS

The benefits given to you under this warranty are in addition to, and do not detract from, other rights and remedies that you may have in respect of your Power-Ped e-Bike or conversion kit under Australian laws, including the Australian Consumer Law.

Power-Ped e-Bikes and conversion kits come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.